

APPENDIX A - Performance Evaluation Computation Form

Landscape Irrigation Simplified
Performance Evaluation Worksheet

Location (front yard, side yard, back yard, etc.): _____

Run time (minutes) [a]: _____ Number of containers or readings [b]: _____

Compute Distribution Uniformity

Container Readings
(arranged smallest to
largest)

Instructions: Transfer information in blanks to appropriate boxes.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

$$\text{Average depth (inches)[d]} = \frac{\text{Total, all readings[c]}}{\text{Total Number of readings[b]}} = \frac{[c] \boxed{}}{[b] \boxed{}} = [d] \text{ in.}$$

$$\text{Lowest Quarter[e]} = \frac{\text{Number of readings[b]}}{4} = \frac{[b] \boxed{}}{4} = [e] \text{ readings}$$

Add up the first [e] readings in the column and enter the number here [f] _____ in.

$$\text{Lowest Quarter Average[g]} = \frac{\text{Total, lowest quarter[f]}}{\text{Lowest quarter Number[e]}} = \frac{[f] \boxed{}}{[e] \boxed{}} = [g] \text{ in.}$$

$$\text{Distribution Uniformity[h]} = \frac{\text{Lowest Quarter Average[g]}}{\text{Average depth[d]}} = \frac{[g] \boxed{}}{[d] \boxed{}} = [h] \text{ _____}$$

Compute Application Rate

$$\text{Application Rate[i]} = \frac{\text{Average depth (inches)[d]} \times 60 \text{ minutes/hour}}{\text{Sprinkler run time (minutes)[a]}}$$

$$\text{Application Rate[i]} = \frac{[d] \boxed{} \times 60 \text{ minutes/hour}}{[a] \boxed{}} = [i] \text{ in./hr.}$$

Amount to Apply Each Irrigation

<u>If your soil is</u>	<u>and your root depth is</u>	<u>apply this amount of water</u>
Sand	< 6 inches	1/2 inch
Sand	6 to 10 inches	3/4 inch
Sand	> 10 inches	1 inch¹
Silt	< 4 inches	1/2 inch
Silt	4 to 8 inches	3/4 inch
Silt	> 8 inches	1 inch¹
Clay	< 3 inches	1/2 inch
Clay	3 to 6 inches	3/4 inch
Clay	> 6 inches	1 inch¹

Total [c] _____

¹Preferred or normal application amount